

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P824277

Luminaire Tested: CB3-D-030U-085D-830-1D-UNV-STD-W-4

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P824277
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-242-3, G2-2312-242-8)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: CB3-D-030U-085D-830-1D-UNV-STD-W-4
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER
3-INCH APERTURE
DOWNLIGHT 850 LUMENS PER FOOT
UPLIGHT 300 LUMENS PER FOOT
Light Source: 80 CRI, 3000K CCT LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4147.5 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 0.24' x L: 4' x H: 0')
CIE Type: Semi-Direct

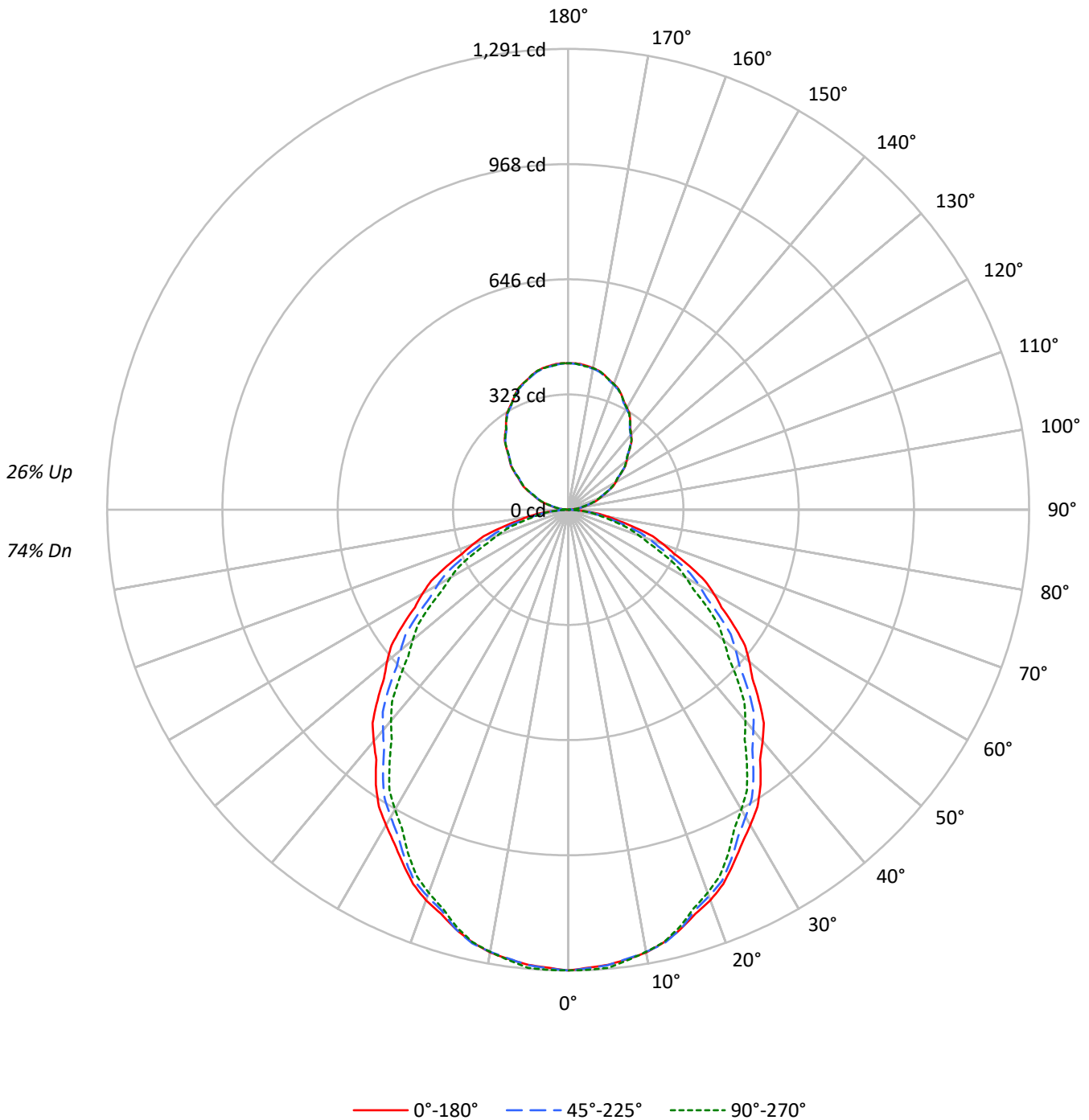
Input Watts (W): 33.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P824277

CATALOG NUMBER: CB3-D-030U-085D-830-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P824277

CATALOG NUMBER: CB3-D-030U-085D-830-1D-UNV-STD-W-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0														
RCR																																						
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	79	79	79	79	79	79	74														
1	104	99	95	92	98	94	91	88	86	83	80	77	75	74	70	68	67	67	67	67	67	67	67	63														
2	95	87	81	75	90	83	77	73	75	71	67	68	65	62	62	59	57	57	57	57	57	57	57	53														
3	86	77	69	63	82	73	66	61	67	61	57	61	56	53	55	52	49	49	49	49	49	49	49	46														
4	79	68	60	54	75	65	58	52	60	53	49	54	49	45	49	45	42	42	42	42	42	42	42	39														
5	73	61	53	47	69	58	51	45	54	47	42	49	44	40	45	40	37	37	37	37	37	37	37	34														
6	67	55	47	41	64	53	45	39	48	42	37	44	39	35	41	36	33	33	33	33	33	33	33	30														
7	63	50	42	36	59	48	40	35	44	38	33	41	35	31	37	33	29	29	29	29	29	29	29	27														
8	58	46	38	32	55	44	36	31	40	34	30	37	32	28	34	30	26	26	26	26	26	26	26	24														
9	54	42	34	29	52	40	33	28	37	31	27	34	29	25	32	27	24	24	24	24	24	24	24	22														
10	51	38	31	26	48	37	30	25	34	28	24	32	27	23	29	25	22	22	22	22	22	22	22	20														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14605	14605	14605
5°	14536	14547	14633
10°	14473	14451	14451
15°	14251	14251	14165
20°	14020	13876	13750
25°	13663	13490	13251
30°	13328	12981	12669
35°	12977	12496	12053
40°	12509	11914	11400
45°	12086	11396	10692
50°	11649	10778	10003
55°	11173	10179	9348
60°	10661	9561	8608
65°	10061	8859	7828
70°	9369	8036	6974
75°	8494	7051	6212
80°	7408	5910	5493
85°	5712	4998	4998

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12086 cd/sqm



TEST NUMBER: P824277

CATALOG NUMBER: CB3-D-030U-085D-830-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	2.9
10°-20°	342.2	8.3
20°-30°	497.0	12.0
30°-40°	565.1	13.6
40°-50°	548.6	13.2
50°-60°	463.1	11.2
60°-70°	329.5	7.9
70°-80°	176.1	4.2
80°-90°	46.5	1.1
90°-100°	17.3	0.4
100°-110°	67.8	1.6
110°-120°	120.9	2.9
120°-130°	163.6	3.9
130°-140°	188.1	4.5
140°-150°	188.8	4.6
150°-160°	162.3	3.9
160°-170°	109.9	2.6
170°-180°	38.8	0.9
0°-30°	961.0	23.2
0°-40°	1526.1	36.8
0°-60°	2537.8	61.2
0°-90°	3089.8	74.5
90°-120°	206.1	5.0
90°-150°	746.6	18.0
90°-180°	1058.0	25.5
0°-180°	4147.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1291	1291	1291	1291	1291	
5°	1280	1296	1281	1279	1288	121
15°	1217	1227	1217	1209	1209	343
25°	1094	1098	1081	1066	1061	504
35°	940	930	905	878	873	585
45°	755	744	712	678	668	583
55°	566	551	516	483	474	506
65°	376	362	331	301	292	372
75°	194	184	161	145	142	207
85°	44	40	38	38	38	52
90°	0	0	0	0	0	2
95°	17	15	14	13	13	19
105°	66	66	63	62	62	70
115°	123	124	121	121	120	122
125°	184	186	182	182	182	164
135°	245	247	243	241	244	189
145°	303	306	301	299	302	190
155°	354	357	351	350	353	163
165°	391	394	389	387	391	110
175°	409	413	408	405	406	39
180°	410	410	410	410	410	



TEST NUMBER: P824277

CATALOG NUMBER: CB3-D-030U-085D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1290.8	1290.8	1290.8	1290.8	1290.8
2.5°	1284.2	1297.1	1285.7	1287.2	1290.1
5°	1279.8	1296.0	1280.8	1279.1	1288.4
7.5°	1269.9	1284.6	1268.8	1265.2	1273.2
10°	1259.7	1275.8	1257.8	1253.4	1257.8
12.5°	1241.3	1258.2	1243.9	1236.5	1240.2
15°	1216.6	1227.4	1216.6	1209.3	1209.3
17.5°	1186.4	1197.6	1177.4	1172.2	1170.2
20°	1164.4	1174.2	1152.4	1145.0	1142.0
22.5°	1135.0	1144.2	1126.0	1113.2	1109.8
25°	1094.4	1098.0	1080.6	1065.9	1061.4
27.5°	1053.9	1054.8	1031.0	1013.0	1007.1
30°	1020.1	1021.0	993.6	974.2	969.7
32.5°	986.4	983.7	957.6	934.6	931.6
35°	939.5	930.5	904.7	878.0	872.6
37.5°	882.8	877.5	846.9	820.1	812.1
40°	846.9	837.9	806.6	779.8	771.8
42.5°	811.0	800.6	768.5	738.7	730.0
45°	755.3	743.6	712.2	678.0	668.2
47.5°	699.2	686.4	651.9	618.8	607.9
50°	661.8	648.3	612.3	579.9	568.3
52.5°	623.6	609.5	573.4	540.4	530.9
55°	566.4	551.2	516.0	482.8	473.9
57.5°	509.2	494.2	459.2	427.8	417.0
60°	471.1	456.8	422.5	391.1	380.4
62.5°	432.3	418.6	385.1	354.5	344.4
65°	375.8	362.4	330.9	301.3	292.4
67.5°	319.9	308.4	277.4	250.2	243.1
70°	283.2	272.5	242.9	218.0	210.8
72.5°	248.0	236.6	208.4	187.2	182.2
75°	194.3	183.6	161.3	144.8	142.1
77.5°	145.2	136.4	117.1	107.8	106.3
80°	113.7	105.6	90.7	84.3	84.3
82.5°	84.3	77.7	68.0	65.3	65.3
85°	44.0	40.4	38.5	38.5	38.5
87.5°	13.2	13.2	12.5	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.5	4.0	2.5	2.0	2.0
95°	16.7	15.1	13.5	12.6	12.9
97.5°	30.8	29.3	27.3	26.4	26.6
100°	40.6	39.4	37.1	36.2	36.2
102.5°	50.2	49.4	47.2	46.3	46.5
105°	65.8	65.5	63.2	62.3	61.7
107.5°	83.0	82.4	80.0	79.9	79.4
110°	94.1	93.8	91.6	91.2	90.9



TEST NUMBER: P824277

CATALOG NUMBER: CB3-D-030U-085D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	105.4	105.8	103.4	103.1	102.8
115°	123.3	124.0	121.1	120.8	120.5
117.5°	141.7	142.6	139.6	139.2	138.7
120°	153.5	155.4	151.7	151.3	151.0
122.5°	165.6	167.2	163.7	163.2	163.1
125°	183.8	185.9	182.2	181.6	181.9
127.5°	201.9	204.1	200.6	199.4	200.1
130°	214.0	216.4	212.7	211.5	212.4
132.5°	226.3	228.8	225.0	223.8	225.2
135°	244.8	247.3	243.2	241.4	243.9
137.5°	262.9	265.0	260.6	259.3	261.9
140°	274.7	276.8	272.2	270.7	273.7
142.5°	286.3	288.7	283.5	282.0	285.3
145°	303.3	305.8	300.8	299.3	302.1
147.5°	319.7	322.2	317.2	315.4	318.2
150°	329.7	332.5	327.2	325.7	328.8
152.5°	339.6	342.6	337.0	335.3	339.1
155°	354.0	357.1	351.1	349.7	353.3
157.5°	366.9	369.8	364.4	362.9	366.1
160°	374.7	377.8	372.2	370.7	374.4
162.5°	381.5	384.6	379.5	377.5	381.2
165°	390.8	394.2	388.9	386.8	390.8
167.5°	398.5	402.2	396.6	394.7	398.7
170°	403.1	406.4	400.9	398.4	402.4
172.5°	406.1	409.5	403.9	401.4	404.2
175°	409.4	413.0	407.5	405.0	406.5
177.5°	410.8	413.8	409.3	407.1	410.5
180°	410.3	410.3	410.3	410.3	410.3



TEST NUMBER: P824277
 CATALOG NUMBER: CB3-D-030U-085D-830-1D-UNV-STD-W-4

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	18.48	19.60	19.20	20.33	21.21	17.40	18.52	18.12	19.25	20.13
	3H	20.17	21.17	20.90	21.91	22.82	18.84	19.84	19.57	20.58	21.49
	4H	20.81	21.75	21.56	22.51	23.43	19.36	20.31	20.11	21.06	21.98
	6H	21.21	22.08	21.97	22.84	23.77	19.69	20.57	20.46	21.33	22.26
	8H	21.35	22.18	22.12	22.96	23.90	19.83	20.66	20.60	21.44	22.37
	12H	21.43	22.22	22.20	23.00	23.96	19.91	20.70	20.69	21.48	22.44
4H	2H	18.92	19.86	19.67	20.62	21.54	18.06	19.01	18.81	19.76	20.68
	3H	20.83	21.62	21.60	22.41	23.34	19.70	20.49	20.47	21.28	22.21
	4H	21.59	22.31	22.37	23.10	24.06	20.32	21.03	21.10	21.83	22.79
	6H	22.11	22.73	22.91	23.54	24.51	20.75	21.36	21.54	22.18	23.15
	8H	22.30	22.88	23.11	23.69	24.68	20.92	21.50	21.72	22.31	23.29
	12H	22.41	22.93	23.24	23.77	24.75	21.04	21.56	21.86	22.39	23.38
8H	4H	21.74	22.32	22.54	23.13	24.11	20.60	21.18	21.40	21.99	22.97
	6H	22.37	22.85	23.20	23.70	24.69	21.14	21.62	21.97	22.47	23.46
	8H	22.65	23.07	23.49	23.92	24.92	21.39	21.82	22.24	22.67	23.67
	12H	22.82	23.20	23.67	24.04	25.10	21.58	21.96	22.43	22.80	23.85
12H	4H	21.73	22.25	22.55	23.08	24.07	20.62	21.14	21.44	21.97	22.96
	6H	22.39	22.81	23.23	23.66	24.66	21.20	21.62	22.04	22.48	23.47
	8H	22.70	23.07	23.54	23.92	24.97	21.49	21.87	22.34	22.71	23.77